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Intellectual Property Pert ION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To

GRANAHAN, Patricia Ropes & Gray LLP One International Place Boston, MA 02110-2624 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 20 July 2006 (20.07.2006)

Applicant's or agent's file reference

YU-PWO-025

Y0087.70013W000

IMPORTANT NOTICE

International application No. PCT/US2005/000083

International filing date (day/month/year) 04 January 2005 (04.01.2005)

Priority date (day/month/year)
06 January 2004 (06.01.2004)

Applicant

YALE UNIVERSITY et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

DOCKETED

SEP -1 2006

V 0 087.70013WVD

Confirmation

Docketing

Lud

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Simin Baharlou

e-mail: pt09@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/326 (January 2004)

#### PATENT COOPERATION TREATY

### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference YU-PWO-025	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2005/000083	International filing date (day/month/year) 04 January 2005 (04.01.2005)	Priority date (day/month/year) 06 January 2004 (06.01.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant YALE UNIVERSITY				

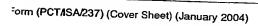
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).			
2.	This REPORT consists of a total of 9 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications relating to the following items:			
,	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	The International Bureau will onot, except where the applicant date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

	Date of issuance of this report 10 July 2006 (10.07.2006)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Simin Baharlou	
Facsimile No. +41 22 338 82 70	e-mail: pt09@wipo.int	

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			REC'D 0 6 JUN 2005			
To	o:			7	DC	- TOC
					PU	WIPO PC
	see forn	PCT/ISA/220	28/1/	INTERNATIO	NAL SEAR	ION OF THE CHING AUTHORITY
			•		PCT Rule 4	13 <i>bis</i> .1)
				Date of mailing (day/month/year) se	e form PCT/ISA/	210 (second sheet)
Ap Se	plicant's or agent's file e form PCT/ISA/	e reference 220		FOR FURTHER ACTION See paragraph 2 below		
Inte	ernational application	No.	International filing date (	t .		
	T/US2005/00008		04.01.2005		06.01.2004	day/month/year)
A6	1K31/13, A61K4	5/06, A61P25/18	both national classification 8, A61P25/22, A61P2	and IPC		
	licant					
YA	LE UNIVERSITY	•				
1.	This opinion co	ontains indicatio	ons relating to the follo	owing items:		
	Box No. I	Basis of the op	inion			
	☑ Box No. II	Priority				
	☑ Box No. III	Non-establishm	nent of opinion with rega	ard to povelty inventing		
	Box No. IV	Lack of unity of	invention	ao to novelty, inventive	step and indu	strial applicability
	⊠ Box No. V	Reasoned state	ement under Rule 43 <i>bis</i> ations and explanations	.1(a)(i) with regard to n	ovelty, inventi	ve step or industrial
	Box No. VI	Certain docume	ents cited	supporting spen state	ment	
	Box No. VII	Certain defects	in the international appl	lication		
	Box No. VIII	Certain observa	tions on the internation	al application		
2.	FURTHER ACTI	ON		·		·
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority						es not apply where
	If this opinion is, a submit to the IPE months from the whichever expires	as provided abov A a written reply date of mailing of s later.	e, considered to be a w together, where approp Form PCT/ISA/220 or b	ritten opinion of the IPI riate, with amendment before the expiration of	EA, the applica s, before the e 22 months fro	ant is invited to xpiration of three om the priority date,
	For further option	s, see Form PCT	//SA/220.			
3.	For further details					
Vame	and mailing address	of the ISA				
	31	or the ISM.		Authorized Officer		nas Patere.
	D-80298 Mu	atent Office		A.H		Tooling 11 E
	Tel. +49 89	2399 - 0 Tx: 52365	6 epmu d	Albrecht, S		
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Telephone No. +49 89 2399-7864



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/000083

_	Вох	No. I Basis of the opinion
1.	With the I	regard to the language, this opinion has been established on the basis of the international application in anguage in which it was filed, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and essary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe of material:
	Ε	a sequence listing
	E	a table(s) related to the sequence listing
	b. fo	rmat of material:
	E	l in written format
	Ε	in computer readable form
	c. tir	ne of filing/furnishing:
	C	contained in the international application as filed.
	C	filed together with the international application in computer readable form.
	C	furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	tional comments:
	Вох	No. II Priority
1.		The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43 <i>bis</i> .1 and 64.1) is the claimed priority date.
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3.	bbA	tional observations if necessary:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/000083

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Th ob	e questions whether the claimed vious), or to be industrially applic	inve able	ntion appears to be novel, to involve an inventive step (to be non have not been examined in respect of:		
	the entire international application,				
$\boxtimes$	l claims Nos. 1-8				
because:					
Ø	the said international application, or the said claims Nos. 1-8 (industrial applicability) relate to the following subject matter which does not require an international preliminary examination (specify):				
	see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	no international search report has been established for the whole application or for said claims Nos.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further	detai	ils		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/000083

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

8,13,16,22,23

No: Claims

1-7,9-12,14,15,17-21,24

Inventive step (IS)

Yes: Claims

No: Claims

1-24

Industrial applicability (IA)

Yes: Claims

9-24

No: Claims

2. Citations and explanations

see separate sheet

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 1-8 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents (D1-D4) are referred to in this written opinion; the numbering results from the order of citations found in the Search Report (SR) and will be adhered to in the rest of the procedure. The cited passage(s) for each citation will be considered unless otherwise specified.

#### V.1. Novelty

V.1.1. Claims 1-7, 9-12, 14, 15, 17-21, 24 do not appear to be novel in the sense of Article 33 (2) PCT, the reasons being as follows:

a) D2 discloses pharmaceutical formulations for treating tobacco, nicotine, cocaine and alcohol addiction, comprising a nicotinic acetylcholine receptor antagonist and an antidepressant such as tricyclic antidepressants, norepinephrine dopamine reuptake inhibitors, selective serotonin reuptake inhibitors, selective norepinephrine reuptake inhibitors and monoamine oxidase inhibitors. In particular, oral compositions comprising mecamylamine hydrochloride and bupropion or doxepin are mentioned, which may be formulated to release the active agents over an extended period of time.

Thus, D2 anticipates the subject-matter of claims 9-12, 14, 15, 17-21, 24.

In this context it is reminded that a new therapeutic indication (i.e. treatment of mood disorders) can only restore the novelty of a known product/composition, if this

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/000083

product/composition has not yet been used for therapeutic purposes in the state of the art.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/000083

#### V.3. Industrial Applicability

For the assessment of the present claims 1-8 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.